

DRAFT-3rd Harmonic Monday Meeting Minutes-DRAFT**Date: May 8, 2006****Time: 10:30 A.M.****Place: ICB Trailer 157 Conference Room**Attendees (P=Present):

C. Antoine		H. Carter		E. Harms	P	A. Rowe	P
T. Arkan		C. Cooper	P	T. Khabiboulline	P	N. Solyak	
P. Bauer		H. Edwards	P	D. Mitchell	P	V. Poloubotko	P
L. Bellantoni		M. Foley	P	D. Olis	P		
C. Boffo	P	C. Ginsburg		P. Pfund	P		

Minutes recorded by Dan.

Minutes are posted at: http://tdserver1.fnal.gov/dolis/39GHz_minutes.html**Minutes of the meeting****Chemistry/Processing**

- General discussion of possible redesign on rinse wand for improved rinse in HOM body. Clear plastic prototype of HOM body will be added to clear cavity for study.
- Timer reported on first performance test results (cavity-2): 2000nanoOhms @ 1.8K initial, 600nanoOhms after processing. Seeing some instability and non-flat field flatness, possibly result of heating at cavity ends (power dissipation mostly at cavity ends). Frequency shift from warm to cold +6.77GHz (expected 7.2 – 7.5).
- Allan reported that rinse wand stalled at one end for about 30seconds. Christian showed pictures of oxidation effect of prolonged water jet on niobium. Presence of oxidation spots in cavity could explain Timer's measurements results. Cavity will be inspected to look for these oxidation spots.
- Cavity will receive inside etch of 10microns.

Helium Vessels

- Dry fit up of helium vessel on cavity-2 this week.
- Don will check on status of weld fixture.
- Helium vessels on order.

HOM Body

- DESY looked at bodies and returned them back to FNAL. DESY pictures of body interior show dark spots (pits) which result from machining. Spots should disappear with etch. Parts will be etched 10microns and inspected before welding into cavities.

HOM Couplers

- Expected HOM couplers not received. Ceramtec is unresponsive. Elvin and Mike Yeoward will visit Ceramtec.

Input Coupler, Test Stand

- Dan estimates test stand and couplers will be ready for test at Meson by August 1.
- Test stand does not require 'cave' for shielding. Discussed setup at Meson outside of cave or possible setup at A0 to eliminate transportation need. Need to determine availability of klystron.

Blade Tuner

- Don sent dwgs to Carlo. Helen will setup phone meeting this week before Don leaves to DESY.
- Don has quote from TD procurement, doesn't include stepper motors. Elvin will order motors.

Other business

- Dan to look into portable clean room needed at Meson. Is Fermi-made cleanroom used on CC2 adequate? Is there a commercial glovebox style unit that can be purchased?
- Don reports that cryomodule vacuum vessel is now in TD procurement.
- Elvin reports that vacuum components for coupler test and horizontal test have been ordered by Brad Tennis.

- Valeri reports: horizontal test vessel expected June 5, cavity support frame to be rec'd at about the same time, Faraday cups and thin windows designs detailed. Valeri will show Helen thin window and cup designs.
- Don reports Yuri Orlov is reviewing cavity string assembly support post design. Helen will forward mechanical drawings of DESY design to Don.
- Don reports magnetic shield drawings and specification to be completed this week.
- Don estimates that helium gas return pipe weldment design will be ready for release in two weeks.